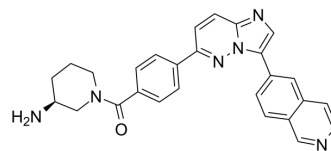


## MNK1/2-IN-6

Cat. No.:	HY-146735
CAS No.:	2771087-94-4
Molecular Formula:	C <sub>27</sub> H <sub>24</sub> N <sub>6</sub> O
Molecular Weight:	448.52
Target:	MNK; Apoptosis
Pathway:	MAPK/ERK Pathway; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	MNK1/2-IN-6 is a potent and selective MNK1/2 inhibitor with IC <sub>50</sub> s of 2.3 nM and 3.4 nM for MNK1 and MNK2, respectively. MNK1/2-IN-6 induces apoptosis in a concentration-dependent manner <sup>[1]</sup> .																	
<b>IC<sub>50</sub> &amp; Target</b>	MNK1 2.3 nM (IC <sub>50</sub> )	MNK2 3.4 nM (IC <sub>50</sub> )																
<b>In Vitro</b>	<p>MNK1/2-IN-6 (compound II-5) (72 h) shows antiproliferative activity with IC<sub>50</sub>s of 0.3896 μM, 0.4092 μM for TMD-8, DOHH-2 cells, respectively<sup>[1]</sup>.</p> <p>MNK1/2-IN-6 (0.25, 0.5, 1 μM; 24 h) induces TMD-8 cells apoptosis in a concentration-dependent manner<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>TMD-8, DOHH-2 cells</td> </tr> <tr> <td>Concentration:</td> <td></td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Showed antiproliferative activity with IC<sub>50</sub>s of 0.39 μM, 0.41 μM for TMD-8, DOHH-2 cells, respectively.</td> </tr> </table> <p>Apoptosis Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>TMD-8 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.25, 0.5, 1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Induced TMD-8 cells apoptosis in a concentration-dependent manner.</td> </tr> </table>		Cell Line:	TMD-8, DOHH-2 cells	Concentration:		Incubation Time:	72 h	Result:	Showed antiproliferative activity with IC <sub>50</sub> s of 0.39 μM, 0.41 μM for TMD-8, DOHH-2 cells, respectively.	Cell Line:	TMD-8 cells	Concentration:	0.25, 0.5, 1 μM	Incubation Time:	24 h	Result:	Induced TMD-8 cells apoptosis in a concentration-dependent manner.
Cell Line:	TMD-8, DOHH-2 cells																	
Concentration:																		
Incubation Time:	72 h																	
Result:	Showed antiproliferative activity with IC <sub>50</sub> s of 0.39 μM, 0.41 μM for TMD-8, DOHH-2 cells, respectively.																	
Cell Line:	TMD-8 cells																	
Concentration:	0.25, 0.5, 1 μM																	
Incubation Time:	24 h																	
Result:	Induced TMD-8 cells apoptosis in a concentration-dependent manner.																	

### REFERENCES

---

[1]. Bu H, et al. Design, synthesis and biological evaluation of imidazopyridazine derivatives containing isoquinoline group as potent MNK1/2 inhibitors. Bioorg Med Chem. 2021; 40:116186.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA